

## Patent Abstracts of Japan

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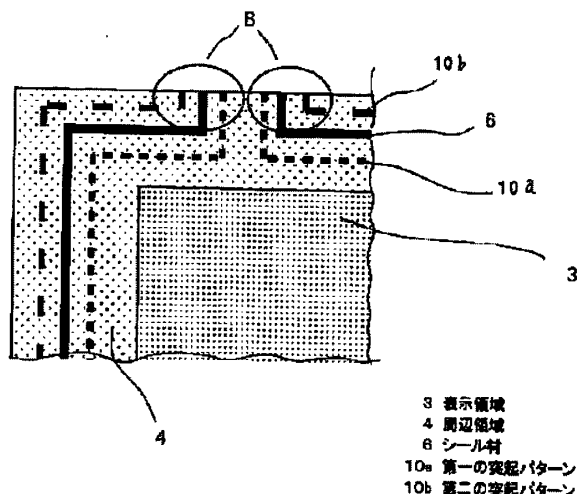
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APPLICANT : ADVANCED DISPLAY INC;

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TITLE : LIQUID CRYSTAL DISPLAY DEVICE  
AND ITS MANUFACTURING METHOD



ABSTRACT : PROBLEM TO BE SOLVED: To manufacture a liquid crystal display device capable of preventing a sealant from being protruded to a display region and from being disconnected by air bubbles, excellent in display characteristics, capable of narrowing a picture frame and attaining a high yield.

SOLUTION: The first projecting patterns 10a and the second projecting patterns 10b are respectively formed inside and outside the sealant 6 provided on either one or both of a display driving substrate 1 and a counter substrate 2. Each of the first and the second projecting patterns 10a, 10b is a plurality of projecting patterns continuously arranged at a specified interval, suppresses the spreading of the sealant 6 in the plane direction by pressurizing and its protrusion to the display region 3 due to variation in coating precision and a coated amount, and prevents a contaminant from flowing out into a liquid crystal 7 from the sealant 6. Since the air bubbled between the sealant 6 and the projecting patterns 10a, 10b are discharged, defective injection of the liquid crystal or lowering of panel strength due to disconnection of the sealant 6 do not occur and a liquid crystal display device with the excellent display characteristics and the narrow picture frame is obtained with a high yield.

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